

**Appl. No.** : **10/678,050**  
**Filed** : **October 1, 2003**

## **AMENDMENTS TO THE CLAIMS**

Please cancel Claims 1-19.

Please add new claims 20-30.

1-19. (Cancelled).

20. (New) A mobile toy vehicle comprising:

a single ground-contacting roller;

two drivetrains;

two weights, each rotatably coupled to the roller via one of the two drivetrains;

and

a member fixedly coupled to the weights, wherein an upper portion of the member is positioned, during the use, higher than a topmost portion of the roller,

wherein the two drivetrains drive the roller relative to the two weights such that the roller can make even multiple revolutions relative to ground without causing the two weights and the member to revolve in lockstep with the roller.

21. (New) The mobile toy vehicle as in claim 20, wherein at least one of the two drivetrains is fixedly connected to the roller.

22. (New) The mobile toy vehicle as in claim 21, further comprising a shaft fixedly connected to the member, wherein at least one of drivetrains drives the roller around the shaft.

23. (New) The mobile toy vehicle as in claim 22, further comprising a hinge, wherein the shaft is connected to the weight via the hinge.

24. (New) The mobile toy vehicle as in claim 23, wherein the weights are driven to move not in lockstep.

25. (New) A mobile toy vehicle comprising:

a wheel;

a weight coupled to the wheel via a shaft and including a main weight body and a sidewise adjustable weight, wherein the main weight body is fixed to the shaft, and the sidewise adjustable weight is coupled to the fixed weight and movable sidewise relative to the fixed weight;

an upper portion fixedly coupled to the main weight body and the sidewise adjustable weight;

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a first motor configured to drive the shaft relative to the wheel so as to generate forward/backward swing of the main weight body and the sidewise adjustable weight to thereby cause locomotion for the vehicle; and

a side-drive assembly configured to move the sidewise adjustable weight from side to side.

26. (New) The mobile toy vehicle as described in claim 25, wherein the sidewise adjustable weight is disposed within a cavity formed by the main weight body.

27. (New) The mobile toy vehicle as described in claim 26, wherein the side-drive assembly includes a swing arm configured to move the sidewise adjustable weight leftward or rightward.

28. (New) The mobile toy vehicle as described in claim 27, wherein the swing arm is inserted in a vertical slot of the sidewise adjustable weight.

29. (New) The mobile toy vehicle as described in claim 26, wherein the shaft is connected at its two ends to the wheel by a bearing, the bearing permitting the shaft to rotate relative to the wheel.

30. (New) The mobile toy vehicle as described in claim 29, wherein the bearing includes an inner layer and an outer layer that can rotate relative to each other on ball bearings, wherein the inner layer is fixed to the shaft.